

U.S. Appln. No. 09/824,959  
Reply to Office Action dated May 5, 2005

PATENT  
450100-03143

### IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

#### Listing of Claims

1. – 6. (Canceled)

7. (Currently Amended) A magnetic-tape recording apparatus for recording digital data on a magnetic tape by a rotating head, comprising:

first obtaining means for obtaining first-group data, including video data, audio data, or search data, wherein the first-group data has a sector structure of a main data area storing said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

second obtaining means for obtaining second-group data, including sub-code data related to the first-group data;

third obtaining means for obtaining third-group data, including ~~audio data for after-recording track information;~~

synthesizing means for synthesizing the first-group data, and the second-group data and the third group data such that they are continuous without any space disposed therebetween ~~and for synthesizing the third group data so as to form a gap between the third group data and the first group data,~~ on a track in the magnetic tape; and

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sending means for sending data synthesized by the synthesizing means to the rotating head in order to record the data on the magnetic tape.

8. (Original) A magnetic-tape recording apparatus according to claim 7, wherein the video data is high-quality video data compressed by an MP@HL or MP@H-14 method.

9. (Currently Amended) A magnetic-tape recording method for a magnetic-tape recording apparatus for recording digital data on a magnetic tape by a rotating head, comprising:

a first obtaining step of obtaining first-group data, including video data, audio data, or search data, wherein the first-group data has a sector structure of a main data area storing said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

a second obtaining step of obtaining second-group data, including sub-code data related to the first-group data;

a third obtaining step of obtaining third-group data, including ~~audio data for after-recording track information;~~

a synthesizing step of synthesizing the first-group data, ~~and the second-group data and the third group data~~ such that they are continuous without any space disposed therebetween ~~and of synthesizing the third group data so as to form a gap between the third group data and the first group data,~~ on a track in the magnetic tape; and

a sending step of sending data synthesized by a process in the synthesizing step to the rotating head in order to record the data on the magnetic tape.

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10. (Currently Amended) A recording medium storing a computer-readable program for controlling a magnetic-tape recording apparatus which records digital data on a magnetic tape by a rotating head, the program comprising:

a first obtaining step of obtaining first-group data, including video data, audio data, or search data, wherein the first-group data has a sector structure of a main data area storing said video data, said audio data, or said search data and a sync block header identifying the type of the main data;

a second obtaining step of obtaining second-group data, including sub-code data related to the first-group data;

a third obtaining step of obtaining third-group data, including ~~audio data for after-~~  
recording track information;

a synthesizing step of synthesizing the first-group data, and the second-group data and the third group data such that they are continuous without any space disposed therebetween ~~and of synthesizing the third-group data so as to form a gap between the third-group data and the first-group data,~~ on a track in the magnetic tape; and

a sending step of sending data synthesized by a process in the synthesizing step to the rotating head in order to record the data on the magnetic tape.

11. (Canceled)